



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Construction of Rooms and other Civil Works at Ambedkar Bhavana (Balance Portion) in Mallasandra Colony Ward No 13 Shettyhalli Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
5	Steel	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
		Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
6	Block(400*150*200)					
7	Precast (100mm)					

Signature

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ಶಿಕ್ಷಣ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ಪುರಸಭೆ
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8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	10.14	4	4
10	RCC(M20)	Compressive Strength(7days and 28days)	2 set /6-15 cum	10.43	4	4
11	RCC (M20)	Compressive Strength(7days and 28days)	2 set /6-15 cum	13.68	4	4
12	Column Concrete (M25)	Compressive Strength(7days and 28days)	2 set /6-15 cum	6.74	4	4
13	Lintel Concrete (M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	2.79	2	2
14	Staircase Concrete (M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.81	2	2
15	FF Roof Concrete (M25)	Compressive Strength(7days and 28days)	4 set /31-50 cum	37.21	8	8
16	Head Room Roof Concrete (M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3.9	2	2
17	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
18	Premix Carpet	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Stripping Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
		Water Absorption	One Test		1	1
19	Mortar Sand	Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
20	Plaster Sand	Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-05-11-14 Date: 03-02-20
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Rooms and other Civil Works at Ambedkar Bhavana (Balance Portion) in Mallasandra Colony Ward No 13 Shettyhalli Sub Division
Agency : M/S Technical Manager (West), Karnataka Rural Infrastructure Development Limited, No.280,59th Cross, 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangaluru-560010
Customer's Reference : EE/DD/W.O/534/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-01-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification, IS 4031 (Part 1,2,3,4,5, 6,11) 1988

IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11 DETERMINATION OF DENSITY, Clause 6

Date of test : 01-02-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.54	-
2	Fineness by Air permeability method (m ² /kg.Min)	298.2	225m ² /kg. Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

Signature

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ಶಿಬಿರ ಕುಲಕರ್ಣಿ, ಬೆಂಗಳೂರು
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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-05-11-14 Date: 29-02-20
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Rooms and other Civil Works at Ambedkar Bhavana (Balance Portion) in Mallasandra Colony Ward No 13 Shettyhalli Sub Division
Agency : M/S Technical Manager (West), Karnataka Rural Infrastructure Development Limited , No.280,59th Cross, 17th C Main Road , 3rd Y Block Rajaji Nagara, Bangaluru-560010
Customer's Reference : EE/DD/W.O/534/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-01-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 01-02-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	38.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	59.0N/mm ²	Not less than 53 N/mm ²

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****End of Report****



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-05-11-14 Date: 03-02-20
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Rooms and other Civil Works at Ambedkar
Bhavana (Balance Portion) in Mallasandra Colony Ward No 13
Shettyhalli Sub Division
Agency : M/S Technical Manager (West), Karnataka Rural Infrastructure
Development Limited , No.280,59th Cross, 17th C Main Road , 3rd
Y Block Rajaji Nagara, Bangaluru-560010

Customer's Reference : EE/DD/W.O/534/2019-20
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 31-01-20
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 31-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	187	187	1.2	98.8	90-100
3	20 mm	7276	7463	49.8	50.2	30-70
4	10 mm	4074	11537	76.9	23.1	10-35
5	4.75 mm	3000	14537	96.9	3.1	0-5
6	Pan	463	15000	100.0	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2020-05-11-14

Date: 03-02-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.57	—
6	Water Absorption(%)	0.23	—

Note:

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R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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 Address : Shettyhalli Sub Division, BBMP, Bangalore.
 Project Name : Construction of Rooms and other Civil Works at Ambedkar Bhavana (Balance Portion) in Mallasandra Colony Ward No 13 Shettyhalli Sub Division
 Agency : M/S Technical Manager (West), Karnataka Rural Infrastructure Development Limited, No.280,59th Cross, 17th C Main Road, 3rd Y Block Rajaji Nagara, Bangaluru-560010
 Customer Reference : EE/DD/W.O/534/2019-20
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 31-01-20
 Sample Type/ Size : 20mm down size coarse aggregate
 Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
 IS: 2386 :1963(Part - 1,3,4) RA2011
 IS 2386 Part 1: Particle Size and Shape
 IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
 IS 2386 Part 4: Mechanical Properties
 Date of test : 31-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

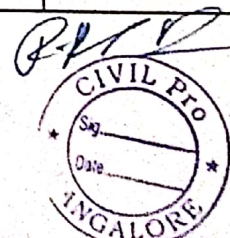
Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	236	236	4.7	95.3	90-100
3	10 mm	2629	2865	57.3	42.7	25-55
4	4.75 mm	1779	4644	92.9	7.1	0-10
5	Pan	356	5000	100	0	-

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